

Gabriel Carvalho Silva

Brazilian, 24 years old

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notmilhouse.github.io

Summary

Passionate about software engineering with a strong foundation in programming since age 13. Skilled in Java, Kotlin, Python, and modern frameworks. Known for proactive collaboration, clear communication, and a growth mindset. Interested in growing into a software architect role, building scalable and robust solutions.

Skills

- **Programming Languages:** Java, Kotlin, Python, C/C++, SQL, Shell scripting
- **Frameworks and Tools:** Spring Boot, Kafka, FastAPI, PostgreSQL, Git, Docker
- **Architectural Concepts:** Microservices, Domain-Driven Design, Event-Driven Architectures
- **Languages:** English (C2), Spanish (A2), Portuguese (native)

Experience

- **Associate Application Engineer** Oct 2024 – Present
Foretellix *Remote*

Develop workshops and software bridges to integrate clients' needs into the Foretellix platform.
Create Shell and Python scripts to automate tasks and streamline client workflows.
- **Data Engineer Intern** May 2024 – Oct 2024
IEA - USP RP *Ribeirão Preto, Brazil*

Refactored PostgreSQL database schemas, reducing query times from over 1 minute to under 20 seconds.
Built dashboards for educational data visualization and insights.
Set up an on-premises server with Docker and implemented basic CI/CD pipelines to improve workflow efficiency.
- **Data Engineer Intern** Aug 2023 – Feb 2024
BRICS - TU Braunschweig *Braunschweig, Germany*

Developed a full-stack application in Python (FastAPI) and PostgreSQL with both a web front-end in React and an Android app for AI-aided diagnosis of horseshoe images.
- **Full Stack Intern** Aug 2023 – Feb 2024
PLRI - TU Braunschweig *Braunschweig, Germany*

Developed a pipeline abstraction framework to help data scientists focus on domain analysis rather than programming details, using Pandas and other Python libraries behind a domain-specific language.
- **Software Engineer Intern** Feb 2021 – Jan 2023
iFood - Financial Services Tribe *Remote*

Created an error mapping library in Kotlin using a domain-specific language (DSL) for better error handling across microservices.
Developed and refactored microservices using Kotlin and Java (Spring Boot).
Contributed to architectural discussions and implemented solutions using Kafka for high-throughput scenarios.

Education

- **Universidade de São Paulo (USP)** Expected 2025
Bachelor of Computer Science *Mar 2020 – Present*

- Focus on distributed systems, software engineering, and IoT
- **Technische Universität Braunschweig**
Exchange Program

Mar 2023 – Mar 2024
Germany

Leadership & Contributions

- **Computer Science Academic League**
Founder and active member May 2024 – Present
- **Hypatia**
Algebra tutor Since Mar 2025
- **Octobit Junior**
Prior Head of Projects; current support counselor Since Jul 2024
- **GEMPRO (Programming Marathon Study Group)**
Co-Founder 2020 – 2021
- **Computer Science Week**
President and partner relations 2020 – 2021
- **CRel (MUN Club)**
Head of Academic Activities 2015 – 2017
- **Fermat Project**
Informatics tutor 2017
- **Tutouros Project**
Mathematics tutor 2015

Certifications

- TOEFL iBT score: 113/120
- High School Programming Competition: 2nd place
- Model United Nations: Best Delegate, 3 Honorable Mentions, 1 Oral Mention

References

Mr. Cristiano Hahn cristianohahn.contato@gmail.com Senior Software Engineer at iFood